

CLAIMS

We claim:

1. An automated banking machine apparatus comprising:

a computer;

a cash dispenser in operative connection with the computer;

a first display device and a second display device in operative connection with the computer, wherein the computer is operative to output a desktop environment that spans the first and the second display devices;

a first input device and a second input device in operative connection with the computer;

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a first software application operative in the computer, wherein the computer is operative responsive to the first application to cause a first user interface to be produced in a first portion of the desktop environment being output through the first display device; and

a second software application operative in the computer, wherein the computer is operative responsive to the second software application to cause a second user interface to be produced in a second portion of the desktop environment being output through the second display device.

5 2. The apparatus according to claim 1, wherein the first input device includes a pointer device and wherein the computer is operative to cause a pointer indicia output that corresponds to the pointer device to be produced in the desktop environment.

10 3. The apparatus according to claim 2 wherein the computer is operative to limit the pointer indicia output to one of the first portion or the second portion.

15 4. The apparatus according to claim 2, wherein the pointer device comprises a mouse, and further comprising a hook application and an operating system component operative in the computer; wherein the hook application is operative to process at least one mouse message corresponding to at least one input through the mouse prior to the operating system component processing the mouse message, and wherein the hook application is operative to selectively cause the mouse message to be suppressed and prevent the pointer indicia output from being included in the first portion of the desktop environment.

5. The apparatus according to claim 4 wherein the pointer indicia output is movable in the desktop environment responsive to the mouse, and wherein the hook application is operative to prevent the pointer indicia output from moving into the first portion.

6. The apparatus according to claim 1, wherein the computer is operatively programmed to automatically return focus to the second software application, in response to the 5 first software application attempting to take focus from the second software application.

7. The apparatus according to claim 1, wherein when the first portion of the desktop environment being output through the first display device includes a nonpalettized resolution, the computer is operative to convert each pixel associated with the first user interface to a pixel color selected from a palette of pixel colors. 10

8. The apparatus according to claim 1, further comprising a third software application operative in the computer, wherein the third software application is operative to cause a generally blank screen to be output through the first display device, responsive to the first software application terminating prematurely.

15 9. The apparatus according to claim 8, wherein the blank screen generally corresponds in size to the first portion of the desktop environment being output through the first display device.

10. The apparatus according to claim 1, further comprising a third software application operative in the computer, wherein the third software application is operative to receive screen data from either the first software application or the second software application, and wherein the third software application is operative to cause the computer to output a user interface through the first display device that corresponds to the screen data.

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11. The apparatus according to claim 10, wherein when the first software application is shut down in a first manner, the first software application is operative to send the third software application screen data which causes output of a message through the first display device that indicates that the machine is out-of-service.

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12. The apparatus according to claim 10, wherein when the second software application is operative to cause the machine to perform a maintenance related task, the second software application is operative to send the third software application screen data which causes output of a message through the first display device that indicates that the machine is out-of-service.

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13. The apparatus according to claim 1, wherein the first application is operative to cause output of the first user interface responsive to receipt by the apparatus of at least one escape code sequence from a remote host system.

14. The apparatus according to claim 1, wherein the first application is operative to cause output of the first user interface responsive to instructions included in at least one HTML document.

15. The apparatus according to claim 1, wherein the first application is operative to cause output of indicia through the first user interface that corresponds to unicode fonts, responsive to receipt of at least one escape code sequence from a host system.

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16. A method for operating an automated banking machine comprising:

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- a) displaying a first portion of a desktop environment through a first display device in operative connection with the machine;
 - b) displaying a second portion of the desktop environment through a second display device in operative connection with the machine;
 - c) enabling output of pointer indicia that corresponds to a pointer device in operative connection with the machine, in the second portion of the desktop environment; and

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- d) preventing the pointer indicia from being output in the first portion of the desktop environment.

17. The method according to claim 16, further comprising:

- e) receiving at least one input from the pointer device that corresponds to movement of the pointer indica from the second portion of the desktop environment to the first portion of the desktop environment;
- f) intercepting at least one pointer message that corresponds to the at least one input before an operating system component processes the pointer message; and
- g) maintaining the output of the pointer indicia in the second portion of the desktop environment.

18. Computer readable media operative to cause a computer in the automated banking machine to carry out the method steps recited in claim 16.

19. A method for operating an automated banking machine comprising:

- a) displaying a first portion of a desktop environment through a first display device in operative connection with the machine;
- b) displaying a second portion of the desktop environment through a second display device in operative connection with the machine;
- c) producing a first user interface on the first portion of the desktop environment;
- d) producing a second user interface on the second portion of the desktop environment;
- e) receiving an input that corresponds to moving an operating system focus from the second user interface to the first user interface; and
- f) returning the operating system focus to the second user interface.

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20. Computer readable media operative to cause a computer in the automated banking machine to carry out the method steps recited in claim 19.

21. A method for operating an automated banking machine comprising:

- a) displaying a first portion of a desktop environment through a first display device in operative connection with the machine;
- b) displaying a second portion of the desktop environment through a second display device in operative connection with the machine;
- c) producing a first user interface including an image, in the first portion of the desktop environment;
- d) enabling pointer indicia that corresponds to a pointer device in operative connection with the machine, to be output on the second portion of desktop environment; and
- e) preventing the pointer indicia from being output on the first portion of desktop environment.

22. The method according to claim 21, wherein resolution of the first user interface is non-palettized and further comprising:

- f) generating a palettized user interface that corresponds to the first user interface; and

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- g) outputting the image responsive to the palettized user interface.
23. The method according to claim 22, where step (f) includes converting each of a plurality of pixels associated with the first user interface to a color selected from a palette of colors.
24. The method according to claim 23, further comprising:
- h) receiving data corresponding to the palette of pixel colors as an escape code sequence message from a host.
25. The method according to claim 21, further comprising:
- f) determining that the first user interface is not available; and
- 10 g) outputting a blank screen in the first portion of the desktop environment, wherein the blank screen has a size that generally corresponds to the size of the first portion of the desktop environment.
26. The method according to claim 21 further comprising:

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- f) receiving HTML instructions from a host; and
 - g) outputting the first user interface responsive to the HTML instructions.
27. Computer readable media operative to cause a computer in the automated banking machine to carry out the method steps recited in claim 21.
28. A method for operating an automated banking machine comprising:
- a) displaying a first portion of a desktop environment through a first display device in operative connection with a computer in the machine;
 - b) displaying a second portion of the desktop environment through a second display device in operative connection with the computer;
 - c) receiving first screen data from a first software application operative in the computer;
 - d) outputting a user interface in the first portion of the desktop environment responsive to the first screen data;

- e) enabling pointer indicia that corresponds to a pointer device in operative connection with the machine, to be output in the second portion of desktop environment; and
- f) preventing the pointer indicia from being output in the first portion of desktop environment.

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29. The method according to claim 28, further comprising:

- i) determining that the first software application is not available; and
- j) including indicia in the user interface, representative of an out-of-service message.

30. The method according to claim 28, further comprising:

- c) receiving second screen data from a second software application operative in the computer; and
- d) outputting the user interface responsive to the second screen data;

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31. Computer readable media operative to cause the computer in the automated banking machine to carry out the method steps recited in claim 28.
32. An automated banking machine apparatus comprising:
- at least one computer;
- a first user station and a second user station in operative connection with the computer, wherein the first user station includes a first display device and at least one first transaction function device, and wherein the second user station includes a second display device and at least one second transaction function device, wherein the computer is operative to output a desktop environment that spans the first and the second display devices; and
- at least one software application operative in the computer, wherein the at least one computer is operative responsive to the at least one application to cause a first user interface to be produced in a first portion of the desktop environment being output through the first display device, and wherein the at least one computer is operative responsive to the at least one application to cause a second user interface to be produced in a second portion of the desktop environment being output through the second display device, wherein the first user station and

the second user station are positioned relative each other, such that two consumers may contemporaneously perform transaction functions with the machine.

33. An automated banking machine apparatus comprising:

at least one computer;

a user station and a presentation station in operative connection with the computer, wherein the user station includes a first display device and at least one first transaction function device, and wherein the presentation station includes a second display device, wherein the computer is operative to output a desktop environment that spans the first and the second display devices; and

10 at least one software application operative in the computer, wherein the at least one computer is operative responsive to the at least one application to cause a user interface to be produced in a first portion of the desktop environment being output through the first display device, and wherein the application is operative to cause a visual presentation to be produced in a second portion of the desktop environment being output through the second display device.